

20 SEP 2005

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at 222.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO		Complete	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	10/521,524
		I.A. Filing Date	16 July 2003
		First Named Inventor	Caroline Hoemann
		An Unit	To be assigned
		Examiner Name	To be assigned
Sheet	2	of	2
		Attorney Docket Number	701826-56360

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/RAD/	C1	CAPITANI, D. et al.; Carbohydrate Polymers; 45:245-252 (2001)	
/RAD/	C2	DE ANGELIS, A.A. et al.; Macromolecules; 31:1595-1601 (1998)	
/RAD/	C3	HSIEN, T.Y. and RORRER G.L.; Ind. Eng. Chem. Res.; 36:3631-3638 (1997)	
/RAD/	C4	KUMBAR S.G. et al.; J. Microencapsulation; 19(2):173-180 (2002)	
/RAD/	C5	LI, J. et al.; Journal of Pharmaceutical Sciences; 91(7):1669-1677 (2002)	
/RAD/	C6	MI, F.-L. et al.; Biomaterials; 23:181-191 (2002)	
/RAD/	C7	MONTEIRO, JR., Oyrton A.C. et al.; International Journal of Biological Macromolecules; 26:119-128 (1999)	
/RAD/	C8	ROGOVINA, S.Z. et al., Polymer Science, 43(9-10):265-268 (2001)	
/RAD/	C9	RUEL-GARIEPY, E. et al.; International Journal of Pharmaceutics; 203:89-98 (2000)	
/RAD/	C10	SUH, J.K Francis et al.; Biomaterials; 21:2589-2598 (2000)	
/RAD/	C11	SUTO, Shinichi et al.; Journal of Applied Polymer Science; 61:2273-2278 (1996)	

Examiner Signature	/Ruth A. Davis/	Date Considered	10/23/2007
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(use as many sheets as necessary)

Sheet	1	of	12
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Complete if Known

Application Number	10/521,524
Filing Date	September 20, 2005
First Named Inventor	Caroline HOEMANN et al.
Art Unit	1651
Examiner Name	To Be Assigned
Attorney Docket Number	701826-056360-US

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				First Named Inventor	Caroline HOEMANN et al.
				Art Unit	1651
				Examiner Name	To Be Assigned
Sheet	2	of	12	Attorney Docket Number	701826-056360-US

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)				
/RAD/ ↓	A44	US-5,944,754		11-08-1996	Vacanti	
	A45	US-5,977,930		11-02-1999	Lohmann et al.	
	A46	US-6,005,161		12-21-1999	Brekke et al.	
	A47	US-6,080,194		06-27-2000	Pachence et al.	
	A48	US-6,110,209		08-29-2000	Stone	
	A49	US-6,124,273		09-26-2000	Drohan et al.	
	A50	US-6,179,872		01-30-2001	Bell et al.	
	A51	US-6,200,606		03-13-2001	Peterson et al.	
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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)		
/RAD/ ↓	B6	EP	0 298 501 A2	01-11-1980	Asahi Kogaku Kogyo Kabushiki Kaisha	
	B7	EP	0 640 647 A2	03-01-1995	Collagen Corporation	
	B8	EP	1 077 253 A1	02-21-2001	Zen Bio, Inc.	
	B9	WO	95/25549	09-28-1995	Lipomatrix Incorporated	
	B10	WO	96/02276	02-01-1996	Gel Sciences, Inc.	
	B11	WO	96/39202	12-12-1996	Osteogenics	
	B12	WO	97/33562	09-18-1997	Laboratories Merck Sharp & Dohme-Chibret SNC	
	B13	WO	98/22114	05-28-1998	Dumex-Alpha	
	B14	WO	99/04720	02-04-1999	Reprogenesis	
	B15	WO	00/02905	01-20-2000	University of Southern California	
	B16	WO	00/44413	08-03-2000	Genetics Institute, Inc.	
	B17	WO	00/48550	08-24-2000	Sulzer Biologics, Inc.	
	B18	WO	01/36000	05-25-2001	Biosyntech Canada, Inc.	
	B19	WO	01/41822	06-14-2001	Biosyntech Canada, Inc.	

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/RAD/	C12	AERTS et al., <i>Journal of Biomechanics</i> , 28(11):1299-1308 (1995)	
	C13	AIBA, <i>Makromol. Chemie</i> , 194(1):65-75 (1993)	
	C14	ALEXANDER et al., <i>Journal of Zoology – London (A)</i> , 209:405-419 (1986)	
	C15	APPLING et al., <i>FEBS Letters</i> , 250(2):541-544 (1989)	
	C16	ASPDEN et al., <i>European Journal of Pharmaceutical Sciences</i> , 4:23-31 (1996)	
	C17	ASTON et al., <i>Journal of Bone and Joint Surgery</i> , 68-B(1):29-35 (1986)	
	C18	ATESHIAN, <i>Journal of Biomechanical Engineering</i> , 119:81-86 (1997)	
	C19	AUSTIN et al., <i>Science</i> , 212:749-753 (1981)	
	C20	BACK et al., <i>Biochemistry</i> , 18(23):5191-5196 (1979)	
	C21	BALKIN, <i>Neale's Common Foot Disorders: Diagnosis and Management</i> , 22:387-400 (1997)	
	C22	BARTONE et al., <i>Journal of Urology</i> , 140:1134-1137 (1988)	
	C23	BELLOWS et al., <i>Bone and Mineral</i> , 17:15-29 (1992)	
↓	C24	BENNETT et al., <i>Journal of Anatomy</i> , 171:131-138 (1990)	

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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/RAD/	C25	BENTLEY et al., <i>Nature</i> , 230:385-388 (1971)	
	C26	BERNKOP-SCHNURCH et al., <i>Journal of Pharmaceutical Sciences</i> , 87(4):430-434 (1998)	
	C27	BLECHSCHMIDT, <i>Foot and Ankle</i> , 2(5):260-283 (1982)	
	C28	BOBIC et al., <i>The Journal of Bone and Joint Surgery</i> , 82-B(2):165-166 (2000)	
	C29	BREINAN et al., <i>The Journal of Bone and Joint Surgery</i> , 79-A(10):1439-1451 (1997)	
	C30	BREINAN et al., <i>Journal of Orthopaedic Research</i> , 18(5):781-789 (2000)	
	C31	GILLQUIST et al., <i>Acta Orthop Scand.</i> , 68(2):186-191 (1997)	
	C32	BRITTBERG et al., <i>The New England Journal of Medicine</i> , 331(14):889-895 (1994)	
	C33	BRITTBERG et al., <i>Clinical Orthopaedics and Related Research</i> , 326:270-283 (1996)	
	C34	BUCKWALTER et al., <i>The Journal of Bone and Joint Surgery</i> , 79-A(4):612-632 (1997)	
	C35	BUSCHMANN et al., <i>Journal of Orthopaedic Research</i> , 10(6):745-758 (1992)	
	C36	BUSCHMANN et al., <i>Foot and Ankle</i> , 14(7):389-394 (1993)	
✓	C37	BUSCHMANN et al., <i>Foot and Ankle</i> , 16(5):254-258 (1995)	

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/RAD/	C38	BUTNARIU-EPHRAT et al., <i>Clinical Orthopaedics and Related Research</i> , 330:234-243 (1996)	
	C39	CALVO et al., <i>Colloid and Polymer Science</i> , 275(1):46-53 (1997) (abstract)	
	C40	CAPLAN et al., <i>Clinical Orthopaedics and Related Research</i> , 342:254-269 (1997)	
	C41	CARREÑO-GÓMEZ et al., <i>International Journal of Pharmaceutics</i> , 148:231-240 (1997)	
	C42	CHENITE et al., <i>Carbohydrate Polymers</i> , 00:1-9 (2000)	
	C43	CHESTERMAN et al., <i>The Journal of Bone and Joint Surgery</i> , 50B(1):184-197 (1968)	
	C44	CHILDERS et al., <i>Clinical Orthopaedics and Related Research</i> , 144:114-120 (1979)	
	C45	CHO et al., <i>Biomaterials</i> , 20:2139-2145 (1999)	
	C46	CHU et al., <i>Journal of Biomedical Materials Research</i> , 29:1147-1154 (1995)	
	C47	CHU et al., <i>Clinical Orthopaedics and Related Research</i> , 340:220-229 (1997)	
	C48	CHUNG et al., <i>Calcif Tissue Int.</i> , 51:305-311 (1992)	
	C49	COHEN et al., <i>British Journal of Haematology</i> , 31:45-50 (1975)	
↓	C50	D'AMBROSIA, <i>Orthopedics</i> , 10(1):137-142 (1987)	

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/RAD/	C51	DENUZIERE et al., <i>Biomaterials</i> , 19:1275-1285 (1998)	
	C52	DEPALMA et al., <i>Clinical Orthopaedics and Related Research</i> , 48:229-242 (1966)	
	C53	DILLON et al., <i>J. Biomater. Sci. Polymer Edn.</i> , 9(10):1049-1069 (1998)	
	C54	ELÇIN et al., <i>Neurological Research</i> , 20:648-654 (1998)	
	C55	FRENKEL et al., <i>The Journal of Bone and Joint Surgery</i> , 79-B(5):831-836 (1997)	
	C56	FREED et al., <i>Journal of Biomedical Materials Research</i> , 28:891-899 (1994)	
	C57	FUKAMIZO et al., <i>Biochem. Cell Biol.</i> , 75:687-696 (1997)	
	C58	GRANDE et al., <i>Journal of Orthopaedic Research</i> , 7(2):208-218 (1989)	
	C59	GREEN, <i>Clinical Orthopaedics and Related Research</i> , 124:237-250 (1977)	
	C60	GUO et al., <i>Connective Tissue Research</i> , 19:277-297 (1989)	
	C61	GUPTA et al., <i>The International Journal of Artificial Organs</i> , 16(3):155-163 (1993)	
	C62	HANGODY et al., <i>Knee Surg., Sports Traumatol., Arthrosc.</i> , 5:262-267 (1997)	
↓	C63	HANGODY et al., <i>Foot and Ankle International</i> , 18(10):628-634 (1997)	

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/RAD/	C64	HENDRICKSON et al., <i>Journal of Orthopaedic Research</i> , 12(4):485-497 (1994)	
	C65	HIGAKI et al., <i>JSME International Journal</i> , 40(4):776-781 (1997)	
	C66	HIRANO et al., <i>Biopolymers</i> , 15:1685-1691 (1976)	
	C67	HOMMINGA et al., <i>Acta Orthop. Scand.</i> , 62(5):415-418 (1991)	
	C68	HUNZIKER et al., <i>The Journal of Bone and Joint Surgery</i> , 78-A(5):721-733 (1996)	
	C69	HYC et al., <i>Cell Transplantation</i> , 6(2):119-124 (1997)	
	C70	ITAY et al., <i>Cartilage Repair by Cultured Chondrocytes</i> , 220:284-303 (1987)	
	C71	JAHSSE et al., <i>Foot and Ankle</i> , 13(5):227-232 (1992)	
	C72	JOHNSON, <i>Operative Arthroscopy</i> , Chapter 24, pp.341-360 (1991)	
	C73	JÜRGENSEN et al., <i>The Journal of Bone and Joint Surgery</i> , 79-A(2):185-193 (1997)	
	C74	KANDEL et al., <i>Art. Cells, Blood Subs., and Immob. Biotech.</i> , 23(5):565-577 (1995)	
	C75	KAWAMURA et al., <i>Acta Orthop. Scand.</i> , 69(1):56-62 (1998)	
✓	C76	KER, <i>Journal of Experimental Biology</i> , 199:1501-1508 (1996)	

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/RAD/	C77	KOPP et al., <i>Int. J. Cancer</i> , 60:275-279 (1995)	
	C78	KOYANO et al., <i>J. Biomed. Mater. Res.</i> , 39:486-490 (1998)	
	C79	KUBOTA et al., <i>Polymer Journal</i> , 29(2):123-127 (1997)	
	C80	KUETTNER, <i>Clinical Biochemistry</i> , 25:155-163 (1992)	
	C81	LAHIJI et al., <i>J. Biomed. Mater. Res.</i> , 51:586-595 (2000)	
	C82	LEE et al., <i>Journal of Controlled Release</i> , 51:213-220 (1998)	
	C83	LEE et al., <i>J. Periodontol.</i> , 71(3):410-417 (2000)	
	C84	LEISTIKOW, <i>Seminars in Thrombosis and Hemostasis</i> , 22(3):289-294 (1996)	
	C85	LI, <i>Biotechnol. Appl. Biochem.</i> , 23:269-271 (1996)	
	C86	LU et al., <i>Biomaterials</i> , 20:1937-1944 (1999)	
	C87	MAHOMED et al., <i>Orthopedics</i> , 15(10):1191-1199 (1992)	
	C88	MALETTE et al., <i>The Annals of Thoracic Surgery</i> , 36(1):55-58 (1983)	
✓	C89	MANKIN, <i>The New England Journal of Medicine</i> , pp.1285-1292 (1974)	

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/RAD/	C90	MATTHEW et al., <i>Journal of Pediatric Surgery</i> , 28(11):1423-1428 (1993)	
	C91	MATTIOLI-BELMONTE et al., <i>Medical and Biological Engineering and Computing</i> , 37:130-134 (1999)	
	C92	MESSNER et al., <i>Acta Orthop. Scand.</i> , 67(5):523-529 (1996)	
	C93	MINAS et al., <i>Articular Cartilage Defects</i> , 20(6):525-538 (1997)	
	C94	MUZZARELLI et al., <i>Biomaterials</i> , 9:247-252 (1988)	
	C95	MUZZARELLI et al., <i>Eur. Chitin Soc.</i> , Ancona (1993)	
	C96	MUZZARELLI et al., <i>Biomaterials</i> , 15(13):1075-1081 (1994)	
	C97	MUZZARELLI et al., <i>Enzyme Microb. Technol.</i> , 17:541-545 (1995)	
	C98	NAMBA et al., <i>The Journal of Bone and Joint Surgery</i> , 80-A(1):4-10 (1998)	
	C99	NARVÁEZ et al., <i>Radiographics</i> , 20(2):333-352 (2000)	
	C100	NEVO et al., <i>Cell Transplantation</i> , 7(1):63-70 (1998)	
	C101	NEWMAN, <i>The American Journal of Sports Medicine</i> , 26(2):309-324 (1998)	
✓	C102	NIXON et al., <i>Journal of Orthopaedic Research</i> , 17(4):475-487 (1999)	

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				Filing Date	September 20, 2005
				First Named Inventor	Caroline HOEMANN et al.
				Group Art Unit	1651
				Examiner Name	To Be Assigned
Sheet	10	of	12	Attorney Docket Number	701826-056360-US

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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/RAD/	C103	NOGUCHI et al., <i>Clinical Orthopaedics and Related Research</i> , 302:251-258 (1994)	
	C104	O'DRISCOLL et al., <i>The Journal of Bone and Joint Surgery</i> , 70-A(4):595-606 (1988)	
	C105	O'DRISCOLL et al., <i>The Journal of Bone and Joint Surgery</i> , 76-A(7):1042-1051 (1994)	
	C106	OHYA et al., <i>J. Microencapsulation</i> , 10(1):1-9 (1993)	
	C107	OKAMOTO et al., <i>J. Vet. Med. Sci.</i> , 57(5):851-854 (1995)	
	C108	OUTERBRIDGE et al., <i>The Journal of Bone and Joint Surgery</i> , 77-A(1):65-72 (1995)	
	C109	PALETTA et al., <i>The American Journal of Sports Medicine</i> , 20(6):725-731 (1992)	
	C110	PECHAK et al., <i>Bone</i> , 7:459-472 (1986)	
	C111	PELUSO et al., <i>Biomaterials</i> , 15(15):1215-1220 (1994)	
	C112	PRIDIE, <i>The Journal of Bone and Joint Surgery</i> , 41-B(3):618-619 (1959)	
	C113	RAO et al., <i>Journal of Biomedical Materials Research</i> , 34:21-28 (1997)	
	C114	ROBINSON et al., <i>Calcif Tissue Int.</i> , 46:246-253 (1990)	
✓	C115	RODRIGO et al., <i>Operative Orthopaedics</i> , Chapter 144, pp.2077-2082 (1993)	

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/RAD/	C116	SALL et al., <i>Ann. Ophthalmol.</i> , 19:31-33 (1987)	
	C117	SAMS et al., <i>Osteoarthritis and Cartilage</i> , 3:47-59 (1995)	
	C118	SCHIPPER et al., <i>Pharmaceutical Research</i> , 14(7):923-929 (1997)	
	C119	SCHWARZ et al., <i>British Journal of Rheumatology</i> , 37(1):21-26 (1998)	
	C120	SECHRIEST et al., <i>J. Biomed. Mater Res</i> , 49(4):534-541 (2000)	
	C121	SELLERS et al., <i>The Journal of Bone and Joint Surgery</i> , 79-A(10):1452-1463 (1997)	
	C122	SELLERS et al., <i>The Journal of Bone and Joint Surgery</i> , 82-A(2):151-160 (2000)	
	C123	SENOO et al., ACCESSION NO. 25365 (1990) (abstract)	
	C124	SHEPARD et al., <i>XVIIth FECTS Meeting Patras, Greece, Abstract Form</i> (July 1-5, 2000)	
	C125	SHIGEMASA et al., <i>Biotechnology and Genetic Engineering Reviews</i> , 13:383-420 (1995)	
	C126	SOULHAT et al., <i>Journal of Biomechanical Engineering</i> , 121:340-347 (1999)	
	C127	SPECCHIA et al., <i>Bulletin for Hospital for Joint Diseases</i> , 54(4):230-235 (1996)	
✓	C128	STEADMAN et al., <i>J. Sports Traumatol. Rel. Res.</i> , 20(2):61-70 (1998)	

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/RAD/	C129	STONE et al., <i>British Journal of Plastic Surgery</i> , 53:601-606 (2000)	
	C130	SUH et al., <i>Biomaterials</i> , 21:2589-2597 (2000)	
	C131	TERBOJEVICH et al., <i>Carbohydrate Polymers</i> , 29(1):63-68 (1996)	
	C132	UENO et al., <i>Biomaterials</i> , 20:1407-1414 (1999)	
	C133	VAN SCHIE et al., <i>Diabetes Care</i> , 23(5):634-638 (2000)	
	C134	VASIOS et al., <i>45th Annual Meeting</i> , Orthopaedic Research Society, Anaheim, California, 711 (February 1-4, 1999)	
	C135	WAKITANI et al., <i>The Journal of Bone and Joint Surgery</i> , 71-B(1):74-80 (1989)	
	C136	WAKITANI et al., <i>The Journal of Bone and Joint Surgery</i> , 76-A(4):579-592 (1994)	
	C137	WEI et al., <i>Journal of Biomedical Materials Research</i> , 34:63-72 (1997)	
	C138	YAGI et al., <i>Biol. Pharm. Bull.</i> , 20(12):1290-1294 (1997)	
	C139	ZIELINSKI et al., <i>Biomaterials</i> , 15(13):1049-1056 (1994)	
	C140	ZOPPOU et al., <i>Bulletin of Mathematical Biology</i> , 59(5):953-973 (1997)	
✓	C141	CHENITE et al., <i>Biomaterials</i> , 21:2155-2161 (2000)	

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